

## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Occupational Group Summary

SOC Code	Occupational Groups	Estimate employment		Change		Annual average			Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings		
00-0000	Total, All Occupations	166,650	189,040	22,390	13.4%	2,240	4,140	6,380	\$32,213	\$8.89 - \$19.06
11-0000	Management Occupations	6,300	7,290	990	15.7%	100	120	220	\$75,416	\$22.00 - \$44.63
13-0000	Business/Financial Operations Occs	4,150	5,010	860	20.7%	90	80	170	\$49,612	\$15.94 - \$28.05
15-0000	Computer & Mathematical Occupations	1,650	2,130	480	29.1%	50	20	70	\$55,925	\$17.78 - \$30.89
17-0000	Architecture/Engineering Occupations	2,750	2,990	240	8.7%	20	60	80	\$54,519	\$19.36 - \$32.12
19-0000	Life, Physical, and Social Sci Occs	1,320	1,530	210	15.9%	20	30	50	\$47,584	\$15.13 - \$28.13
21-0000	Community/Social Services Occs	2,640	3,210	570	21.6%	60	50	110	\$38,047	\$12.70 - \$21.32
23-0000	Legal Occupations	580	720	140	24.1%	10	10	20	\$60,036	\$19.77 - \$36.32
25-0000	Ed, Training, & Library Occs	9,510	11,320	1,810	19.0%	180	200	380	\$39,284	\$12.94 - \$24.57
27-0000	Arts/Design/Entertainment/Sports/Media	1,810	2,080	270	14.9%	30	30	60	\$31,868	\$8.62 - \$19.96
29-0000	Healthcare Practitioners & Techncl Occs	7,240	9,390	2,150	29.7%	220	140	360	\$53,421	\$17.12 - \$26.79
31-0000	Healthcare Support Occupations	4,710	6,320	1,610	34.2%	160	70	230	\$23,290	\$9.44 - \$12.81
33-0000	Protective Service Occupations	2,760	3,180	420	15.2%	40	80	120	\$36,306	\$12.88 - \$22.37
35-0000	Food Preparation & Serving Occupations	16,600	18,670	2,070	12.5%	210	660	870	\$16,583	\$6.19 - \$9.09
37-0000	Build & Grounds Cleaning/Maint Occs	6,430	7,520	1,090	17.0%	110	130	240	\$21,934	\$7.89 - \$12.51
39-0000	Personal Care and Service Occupations	4,450	5,640	1,190	26.7%	120	100	220	\$19,638	\$7.20 - \$10.61
41-0000	Sales and Related Occupations	16,240	18,350	2,110	13.0%	210	570	780	\$29,589	\$7.24 - \$15.83
43-0000	Office/Administrative Support Occupation	24,320	25,740	1,420	5.8%	140	570	710	\$26,699	\$9.40 - \$15.23
45-0000	Farming/Fishing/Forestry Occs	140	160	20	14.3%	<5	<5	<5	\$19,053	\$6.56 - \$11.14
47-0000	Construction/Extraction Occupations	7,370	8,930	1,560	21.2%	160	150	310	\$42,341	\$14.56 - \$25.43
49-0000	Installation/Maint/Repair Occupations	6,380	7,280	900	14.1%	90	150	240	\$35,514	\$12.44 - \$20.93
51-0000	Production Occupations	26,630	27,370	740	2.8%	70	640	710	\$30,425	\$10.71 - \$17.32
53-0000	Trans/Material Moving Occupations	12,690	14,230	1,540	12.1%	150	280	430	\$26,613	\$9.10 - \$15.56

(see notes on page 2)

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### Notes:

- (1) Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) Replacements are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver.  
Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) Total openings are the sum of new jobs and replacements.
- (4) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.
- (5) Hourly Wage Rate - Middle Range: The middle range identifies the 25th and 75th percentiles in the hourly wage distribution for a given occupation.  
Fifty percent of the workers in the occupation earn wages in this range. In most cases, the entry level wage is at or below the 25th percentile.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

### Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Top 50 Occupations with most new jobs

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
29-1111	Registered Nurses	2,590	3,400	810	31.3%	80	50	130	Bachelor's or Associate degree (see note 9)	\$47,347	\$19.89 - \$25.52
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	3,420	4,120	700	20.5%	70	150	220	Short-term on-the-job training	\$15,714	\$6.34 - \$8.46
41-2031	Retail Salespersons	5,420	6,060	640	11.8%	60	200	260	Short-term on-the-job training	\$20,194	\$6.99 - \$10.22
31-1012	Nursing Aides/Orderlies/Attendants	2,330	2,910	580	24.9%	60	30	90	Short-term on-the-job training	\$22,303	\$9.38 - \$11.89
41-2011	Cashiers	4,570	5,100	530	11.6%	50	220	270	Short-term on-the-job training	\$16,507	\$6.61 - \$8.69
35-3031	Waiters/Waitresses	3,450	3,920	470	13.6%	50	180	230	Short-term on-the-job training	\$13,726	\$5.79 - \$6.75
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	3,080	3,560	480	15.6%	50	60	110	Short-term on-the-job training	\$21,290	\$7.89 - \$12.19
53-3032	Truck Drivers/Heavy/Tractor-Trailer	2,230	2,700	470	21.1%	50	40	90	Moderate-term on-the-job training	\$36,044	\$14.01 - \$20.62
43-4171	Receptionists/Info Clerks	1,440	1,860	420	29.2%	40	40	80	Short-term on-the-job training	\$21,793	\$8.91 - \$11.68
39-9021	Personal and Home Care Aides	920	1,350	430	46.7%	40	20	60	Short-term on-the-job training	\$18,463	\$7.90 - \$9.98
31-1011	Home Health Aides	700	1,070	370	52.9%	40	10	50	Short-term on-the-job training	\$19,776	\$8.74 - \$10.63
43-9061	Office Clerks/General	2,610	2,860	250	9.6%	30	60	90	Short-term on-the-job training	\$22,935	\$8.81 - \$12.92
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	1,950	2,290	340	17.4%	30	50	80	Moderate-term on-the-job training	\$64,442	\$17.99 - \$47.27
37-2012	Maids/Housekpng Cleaners	1,760	2,050	290	16.5%	30	40	70	Short-term on-the-job training	\$17,971	\$7.11 - \$9.92
11-1021	General and Operations Mgrs	1,770	2,030	260	14.7%	30	30	60	Bachelor's degree or more, plus work exp.	\$89,401	\$24.58 - \$55.03
49-9042	Maint/Repair Wrkrs/General	1,750	2,010	260	14.9%	30	30	60	Long-term on-the-job training	\$32,355	\$11.98 - \$19.28
43-4051	Customer Service Reps	1,690	2,010	320	18.9%	30	30	60	Moderate-term on-the-job training	\$29,520	\$9.98 - \$17.65
47-2031	Carpenters	1,310	1,600	290	22.1%	30	20	50	Long-term on-the-job training	\$37,280	\$13.70 - \$21.78
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrkrs	1,680	1,890	210	12.5%	20	40	60	Work exp. in a related occupation	\$49,398	\$17.46 - \$28.03
25-2021	Elemen Schl Tchrs Ex Special Ed	1,570	1,740	170	10.8%	20	40	60	Bachelor's degree	\$37,645	-
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	1,310	1,490	180	13.7%	20	40	60	Bachelor's degree	\$43,214	-
35-2021	Food Prep Wrkrs	1,080	1,290	210	19.4%	20	40	60	Short-term on-the-job training	\$16,877	\$7.05 - \$8.84
51-9111	Packagng/Filling Machn Oprs/Tendrs	1,680	1,880	200	11.9%	20	30	50	Short-term on-the-job training	\$26,620	\$10.16 - \$15.98
53-7064	Packers/Packagers/Hand	1,700	1,860	160	9.4%	20	30	50	Short-term on-the-job training	\$20,574	\$7.79 - \$11.43
41-1011	F-L Sups/Mgrs of Rtl Sls Wrkrs	1,400	1,610	210	15.0%	20	30	50	Work exp. in a related occupation	\$34,307	\$11.56 - \$20.03
25-9041	Teacher Assts	1,370	1,610	240	17.5%	20	30	50	Associate degree	\$20,247	-
37-3011	Landscaping/Grndskpng Wrkrs	1,080	1,310	230	21.3%	20	20	40	Short-term on-the-job training	\$22,661	\$8.42 - \$12.75
13-2011	Accountants and Auditors	970	1,170	200	20.6%	20	20	40	Bachelor's degree	\$52,353	\$18.98 - \$29.23
53-3022	Bus Drivers/School	830	1,060	230	27.7%	20	20	40	Short-term on-the-job training	\$24,964	\$10.23 - \$13.83

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### Top 50 Occupations with most new jobs

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
39-5012	Hairdress/Hairstyl/Cosmetologists	850	1,050	200	23.5%	20	20	40	Postsecondary vocational training	\$20,899	\$7.11 - \$12.42
47-2111	Electricians	740	940	200	27.0%	20	20	40	Long-term on-the-job training	\$51,910	\$22.45 - \$28.20
39-9011	Child Care Wrkrs	610	780	170	27.9%	20	20	40	Short-term on-the-job training	\$17,752	\$7.28 - \$9.10
53-3033	Truck Drivers/Light or Delivery Svcs	1,230	1,460	230	18.7%	20	10	30	Short-term on-the-job training	\$27,222	\$9.38 - \$15.74
47-2061	Construction Laborers	880	1,050	170	19.3%	20	10	30	Moderate-term on-the-job training	\$34,913	\$12.53 - \$20.82
25-2011	Preschool Teachers/Ex Special Ed	610	790	180	29.5%	20	10	30	Bachelor's degree	\$22,112	\$8.45 - \$12.57
21-1093	Social/Human Service Assts	450	650	200	44.4%	20	10	30	Moderate-term on-the-job training	\$29,870	\$10.41 - \$18.18
31-9091	Dental Assts	430	610	180	41.9%	20	10	30	Moderate-term on-the-job training	\$27,016	\$11.74 - \$14.48
31-9092	Medical Assts	330	520	190	57.6%	20	10	30	Moderate-term on-the-job training	\$27,218	\$10.57 - \$14.78
35-3011	Bartenders	1,620	1,710	90	5.6%	10	60	70	Short-term on-the-job training	\$18,240	\$7.30 - \$10.22
43-3031	Bookkeep/Account/Auditing Clerks	2,330	2,420	90	3.9%	10	40	50	Moderate-term on-the-job training	\$27,902	\$10.52 - \$16.06
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	530	600	70	13.2%	10	40	50	Short-term on-the-job training	\$14,904	\$6.18 - \$8.07
43-6011	Executive Secretaries/Admin Assts	1,710	1,830	120	7.0%	10	30	40	Moderate-term on-the-job training	\$31,469	\$11.67 - \$18.02
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrkrs	1,410	1,490	80	5.7%	10	30	40	Work exp. in a related occupation	\$43,281	\$14.86 - \$24.78
49-3023	Automotive Service Techs/Mechanics	1,070	1,200	130	12.1%	10	30	40	Postsecondary vocational training	\$31,106	\$10.71 - \$17.53
51-4041	Machinists	1,090	1,140	50	4.6%	10	30	40	Long-term on-the-job training	\$33,255	\$13.34 - \$18.48
35-2014	Cooks/Restaurant	940	1,060	120	12.8%	10	30	40	Long-term on-the-job training	\$19,103	\$7.19 - \$10.49
51-4121	Welders/Cutters/Solderers/Brazers	930	1,050	120	12.9%	10	30	40	Postsecondary vocational training	\$29,690	\$11.55 - \$16.76
35-9021	Dishwashers	980	1,030	50	5.1%	10	30	40	Short-term on-the-job training	\$13,787	\$5.91 - \$7.37
43-3071	Tellers	670	760	90	13.4%	10	30	40	Short-term on-the-job training	\$20,368	\$8.64 - \$10.86
53-7051	Industrial Truck/Tractor Oprs	1,260	1,360	100	7.9%	10	20	30	Short-term on-the-job training	\$26,746	\$11.05 - \$14.65
Sub-set totals (top 50)		78,330	91,310	12,980		1,320	2,120	3,440			
Overall totals		166,650	189,040	22,390		2,240	4,140	6,380			
Percent of overall		47%	48%	58%		59%	51%	54%			

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

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## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### 50 Fastest Growing, with 200+ employment in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replace-ments	Total Openings			
29-2071	Medical Records/Health Info Techs	190	310	120	63.2%	10	<5	10	Associate degree	\$23,193	\$8.77 - \$12.21
31-9092	Medical Assts	330	520	190	57.6%	20	10	30	Moderate-term on-the-job training	\$27,218	\$10.57 - \$14.78
31-1011	Home Health Aides	700	1,070	370	52.9%	40	10	50	Short-term on-the-job training	\$19,776	\$8.74 - \$10.63
39-9021	Personal and Home Care Aides	920	1,350	430	46.7%	40	20	60	Short-term on-the-job training	\$18,463	\$7.90 - \$9.98
21-1093	Social/Human Service Assts	450	650	200	44.4%	20	10	30	Moderate-term on-the-job training	\$29,870	\$10.41 - \$18.18
29-2021	Dental Hygienists	270	390	120	44.4%	10	<5	10	Associate degree	\$52,132	\$23.77 - \$27.06
31-9091	Dental Assts	430	610	180	41.9%	20	10	30	Moderate-term on-the-job training	\$27,016	\$11.74 - \$14.48
29-1122	Occupational Therapists	150	210	60	40.0%	10	<5	10	Bachelor's degree	\$51,541	\$19.76 - \$29.16
29-1123	Physical Therapists	180	250	70	38.9%	10	<5	10	Master's degree	\$60,131	\$24.56 - \$32.75
11-9111	Medical/Health Services Mgrs	220	300	80	36.4%	10	<5	10	Bachelor's degree or more, plus work exp.	\$72,275	\$23.61 - \$36.04
49-9021	Heating/AC/Refrig Mechs/Instlrs	200	270	70	35.0%	10	<5	10	Long-term on-the-job training	\$41,842	\$15.92 - \$23.17
15-1051	Computer Systems Analysts	390	520	130	33.3%	10	<5	10	Bachelor's degree	\$73,851	\$20.71 - \$34.82
25-3021	Self-Enrichment Ed Teachers	210	280	70	33.3%	10	<5	10	Work exp. in a related occupation	\$24,020	\$7.52 - \$15.03
39-9031	Fitness Trainers/Aerobics Instruct	280	370	90	32.1%	10	10	20	Postsecondary vocational training	\$18,898	\$7.32 - \$9.30
47-2051	Cem Masons/Conc Finishrs	280	370	90	32.1%	10	10	20	Moderate-term on-the-job training	\$39,634	\$14.24 - \$23.02
15-1071	Network/Computer Systems Admin	190	250	60	31.6%	10	<5	10	Bachelor's degree	\$49,814	\$19.04 - \$27.45
27-3031	Public Relations Specialists	190	250	60	31.6%	10	<5	10	Bachelor's degree	\$34,855	\$6.89 - \$22.70
29-1111	Registered Nurses	2,590	3,400	810	31.3%	80	50	130	Bachelor's or Associate degree (see note 9)	\$47,347	\$19.89 - \$25.52
13-1073	Training/Development Specialists	160	210	50	31.3%	10	<5	10	Bachelor's degree	\$39,593	\$13.27 - \$23.69
29-2034	Radiologic Technologists/Techs	200	260	60	30.0%	10	<5	10	Associate degree	\$41,819	\$17.24 - \$22.80
25-2011	Preschool Teachers/Ex Special Ed	610	790	180	29.5%	20	10	30	Bachelor's degree	\$22,112	\$8.45 - \$12.57
43-4171	Receptionists/Info Clerks	1,440	1,860	420	29.2%	40	40	80	Short-term on-the-job training	\$21,793	\$8.91 - \$11.68
11-2022	Sales Mgrs	280	360	80	28.6%	10	10	20	Bachelor's degree or more, plus work exp.	\$83,484	\$24.54 - \$47.52
25-2041	Sp Ed Tchrs/Presch/Kind/Elem Schl	210	270	60	28.6%	10	10	20	Bachelor's degree	\$40,163	-
39-9011	Child Care Wrkrs	610	780	170	27.9%	20	20	40	Short-term on-the-job training	\$17,752	\$7.28 - \$9.10
23-1011	Lawyers	360	460	100	27.8%	10	10	20	First professional degree	\$71,953	\$24.22 - \$40.40
53-3022	Bus Drivers/School	830	1,060	230	27.7%	20	20	40	Short-term on-the-job training	\$24,964	\$10.23 - \$13.83
29-2041	Emergency Med Techs/Paramedics	290	370	80	27.6%	10	<5	10	Postsecondary vocational training	\$29,425	\$8.82 - \$16.61
47-2111	Electricians	740	940	200	27.0%	20	20	40	Long-term on-the-job training	\$51,910	\$22.45 - \$28.20
29-2052	Pharmacy Techs	260	330	70	26.9%	10	<5	10	Moderate-term on-the-job training	\$22,561	\$9.08 - \$12.64

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SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
29-1051	Pharmacists	260	330	70	26.9%	10	10	20	First professional degree	\$83,200	\$37.84 - \$43.91
47-2181	Roofers	190	240	50	26.3%	10	<5	10	Moderate-term on-the-job training	\$28,193	\$10.57 - \$15.61
47-2152	Plumbers/Pipefitters/Steamfitters	540	680	140	25.9%	10	10	20	Long-term on-the-job training	\$52,676	\$20.15 - \$32.20
19-3031	Clinical/Counseling/School Psych	160	200	40	25.0%	<5	<5	<5	Doctoral degree	\$60,328	\$20.85 - \$35.81
41-3021	Insurance Sales Agents	160	200	40	25.0%	<5	<5	<5	Bachelor's degree	\$58,927	\$15.61 - \$27.77
31-1012	Nursing Aides/Orderlies/Attendants	2,330	2,910	580	24.9%	60	30	90	Short-term on-the-job training	\$22,303	\$9.38 - \$11.89
41-1012	F-L Sups/Mgrs of nonRtl Sls Wrks	250	310	60	24.0%	10	10	20	Work exp. in a related occupation	\$73,265	\$16.47 - \$41.71
13-1051	Cost Estimators	250	310	60	24.0%	10	10	20	Bachelor's degree	\$43,589	\$16.14 - \$25.41
41-2021	Counter and Rental Clerks	420	520	100	23.8%	10	20	30	Short-term on-the-job training	\$16,738	\$6.32 - \$9.26
31-9094	Medical Transcriptionists	210	260	50	23.8%	10	<5	10	Postsecondary vocational training	\$27,933	\$11.74 - \$15.68
39-5012	Hairdress/Hairstyl/Cosmetologists	850	1,050	200	23.5%	20	20	40	Postsecondary vocational training	\$20,899	\$7.11 - \$12.42
15-1041	Computer Support Specialists	340	420	80	23.5%	10	<5	10	Associate degree	\$40,472	\$15.49 - \$22.11
11-3021	Computer/Information Systems Mgrs	170	210	40	23.5%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$80,010	\$29.37 - \$44.48
27-1024	Graphic Designers	170	210	40	23.5%	<5	<5	<5	Bachelor's degree	\$38,005	\$12.45 - \$21.39
43-3011	Bill/Account Collectors	220	270	50	22.7%	10	<5	10	Short-term on-the-job training	\$26,529	\$10.13 - \$15.17
25-2012	Kindergarten Tchrs Ex Special Ed	220	270	50	22.7%	10	<5	10	Bachelor's degree	\$39,431	-

Also included in the top fifty but not shown to protect the confidentiality of employers are the following occupations:

25-1194	Vocational Ed Teachers/Postsec	*	*	*	*	10	10	20	Work exp. in a related occupation	*	* - *
25-1071	Health Specialties Teachers Ps	*	*	*	*	10	10	20	Master's degree	*	* *
43-4111	Interviewers/Ex Eligibility/Loan	*	*	*	*	10	<5	10	Short-term on-the-job training	*	* *
15-1031	Computer Software Engnr's Apps	*	*	*	*	10	<5	10	Bachelor's degree	*	* *

Sub-set totals (top 50)	20,900	27,450	6,550			750	400	1,150
Overall totals	166,650	189,040	22,390			2,240	4,140	6,380
Percent of overall	13%	15%	29%			33%	10%	18%

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

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## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Top 50 Occupations with Most Replacement Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2011	Cashiers	4,570	5,100	530	11.6%	50	220	270	Short-term on-the-job training	\$16,507	\$6.61 - \$8.69
41-2031	Retail Salespersons	5,420	6,060	640	11.8%	60	200	260	Short-term on-the-job training	\$20,194	\$6.99 - \$10.22
35-3031	Waiters/Waitresses	3,450	3,920	470	13.6%	50	180	230	Short-term on-the-job training	\$13,726	\$5.79 - \$6.75
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	3,420	4,120	700	20.5%	70	150	220	Short-term on-the-job training	\$15,714	\$6.34 - \$8.46
51-2092	Team Assemblers	4,010	3,800	-210	-5.2%	<5	100	100	Moderate-term on-the-job training	\$27,958	\$9.97 - \$14.80
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	2,690	2,730	40	1.5%	<5	90	90	Short-term on-the-job training	\$23,417	\$8.80 - \$13.12
43-5081	Stock Clerks/Order Fillers	1,940	1,840	-100	-5.2%	<5	70	70	Short-term on-the-job training	\$19,847	\$7.18 - \$11.34
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	3,080	3,560	480	15.6%	50	60	110	Short-term on-the-job training	\$21,290	\$7.89 - \$12.19
43-9061	Office Clerks/General	2,610	2,860	250	9.6%	30	60	90	Short-term on-the-job training	\$22,935	\$8.81 - \$12.92
35-3011	Bartenders	1,620	1,710	90	5.6%	10	60	70	Short-term on-the-job training	\$18,240	\$7.30 - \$10.22
29-1111	Registered Nurses	2,590	3,400	810	31.3%	80	50	130	Bachelor's or Associate degree (see note 9)	\$47,347	\$19.89 - \$25.52
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	1,950	2,290	340	17.4%	30	50	80	Moderate-term on-the-job training	\$64,442	\$17.99 - \$47.27
51-9198	Helpers--Production Wrks	1,780	1,810	30	1.7%	<5	50	50	Short-term on-the-job training	\$26,448	\$12.21 - \$14.46
53-3032	Truck Drivers/Heavy/Tractor-Trailer	2,230	2,700	470	21.1%	50	40	90	Moderate-term on-the-job training	\$36,044	\$14.01 - \$20.62
43-4171	Receptionists/Info Clerks	1,440	1,860	420	29.2%	40	40	80	Short-term on-the-job training	\$21,793	\$8.91 - \$11.68
37-2012	Maids/Housekpng Cleaners	1,760	2,050	290	16.5%	30	40	70	Short-term on-the-job training	\$17,971	\$7.11 - \$9.92
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrks	1,680	1,890	210	12.5%	20	40	60	Work exp. in a related occupation	\$49,398	\$17.46 - \$28.03
25-2021	Elemen Schl Tchrs Ex Special Ed	1,570	1,740	170	10.8%	20	40	60	Bachelor's degree	\$37,645	-
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	1,310	1,490	180	13.7%	20	40	60	Bachelor's degree	\$43,214	-
35-2021	Food Prep Wrks	1,080	1,290	210	19.4%	20	40	60	Short-term on-the-job training	\$16,877	\$7.05 - \$8.84
43-3031	Bookkeep/Account/Auditing Clerks	2,330	2,420	90	3.9%	10	40	50	Moderate-term on-the-job training	\$27,902	\$10.52 - \$16.06
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	530	600	70	13.2%	10	40	50	Short-term on-the-job training	\$14,904	\$6.18 - \$8.07
43-6014	Secretaries/Ex Legal/Medical/Exec	2,310	2,170	-140	-6.1%	<5	40	40	Moderate-term on-the-job training	\$24,640	\$9.62 - \$13.93
31-1012	Nursing Aides/Orderlies/Attendants	2,330	2,910	580	24.9%	60	30	90	Short-term on-the-job training	\$22,303	\$9.38 - \$11.89
11-1021	General and Operations Mgrs	1,770	2,030	260	14.7%	30	30	60	Bachelor's degree or more, plus work exp.	\$89,401	\$24.58 - \$55.03
49-9042	Maint/Repair Wrks/General	1,750	2,010	260	14.9%	30	30	60	Long-term on-the-job training	\$32,355	\$11.98 - \$19.28
43-4051	Customer Service Reps	1,690	2,010	320	18.9%	30	30	60	Moderate-term on-the-job training	\$29,520	\$9.98 - \$17.65
51-9111	Packagng/Fillng Machn Oprs/Tendrs	1,680	1,880	200	11.9%	20	30	50	Short-term on-the-job training	\$26,620	\$10.16 - \$15.98
53-7064	Packers/Packagers/Hand	1,700	1,860	160	9.4%	20	30	50	Short-term on-the-job training	\$20,574	\$7.79 - \$11.43

## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Top 50 Occupations with Most Replacement Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-1011	F-L Sups/Mgrs of Rtl Sl's Wrks	1,400	1,610	210	15.0%	20	30	50	Work exp. in a related occupation	\$34,307	\$11.56 - \$20.03
25-9041	Teacher Assts	1,370	1,610	240	17.5%	20	30	50	Associate degree	\$20,247	-
43-6011	Executive Secretaries/Admin Assts	1,710	1,830	120	7.0%	10	30	40	Moderate-term on-the-job training	\$31,469	\$11.67 - \$18.02
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrks	1,410	1,490	80	5.7%	10	30	40	Work exp. in a related occupation	\$43,281	\$14.86 - \$24.78
49-3023	Automotive Service Techs/Mechanics	1,070	1,200	130	12.1%	10	30	40	Postsecondary vocational training	\$31,106	\$10.71 - \$17.53
51-4041	Machinists	1,090	1,140	50	4.6%	10	30	40	Long-term on-the-job training	\$33,255	\$13.34 - \$18.48
35-2014	Cooks/Restaurant	940	1,060	120	12.8%	10	30	40	Long-term on-the-job training	\$19,103	\$7.19 - \$10.49
51-4121	Welders/Cutters/Solderers/Brazers	930	1,050	120	12.9%	10	30	40	Postsecondary vocational training	\$29,690	\$11.55 - \$16.76
35-9021	Dishwashers	980	1,030	50	5.1%	10	30	40	Short-term on-the-job training	\$13,787	\$5.91 - \$7.37
43-3071	Tellers	670	760	90	13.4%	10	30	40	Short-term on-the-job training	\$20,368	\$8.64 - \$10.86
35-2011	Cooks/Fast Food	910	930	20	2.2%	<5	30	30	Short-term on-the-job training	\$14,538	\$6.05 - \$7.82
39-9021	Personal and Home Care Aides	920	1,350	430	46.7%	40	20	60	Short-term on-the-job training	\$18,463	\$7.90 - \$9.98
47-2031	Carpenters	1,310	1,600	290	22.1%	30	20	50	Long-term on-the-job training	\$37,280	\$13.70 - \$21.78
37-3011	Landscaping/Grndskpng Wrks	1,080	1,310	230	21.3%	20	20	40	Short-term on-the-job training	\$22,661	\$8.42 - \$12.75
13-2011	Accountants and Auditors	970	1,170	200	20.6%	20	20	40	Bachelor's degree	\$52,353	\$18.98 - \$29.23
53-3022	Bus Drivers/School	830	1,060	230	27.7%	20	20	40	Short-term on-the-job training	\$24,964	\$10.23 - \$13.83
39-5012	Hairdress/Hairstyl/Cosmetologists	850	1,050	200	23.5%	20	20	40	Postsecondary vocational training	\$20,899	\$7.11 - \$12.42
47-2111	Electricians	740	940	200	27.0%	20	20	40	Long-term on-the-job training	\$51,910	\$22.45 - \$28.20
39-9011	Child Care Wrks	610	780	170	27.9%	20	20	40	Short-term on-the-job training	\$17,752	\$7.28 - \$9.10
53-7051	Industrial Truck/Tractor Oprs	1,260	1,360	100	7.9%	10	20	30	Short-term on-the-job training	\$26,746	\$11.05 - \$14.65
35-1012	F-L Sups/Mgrs Food Prep/Srv Wrks	960	1,080	120	12.5%	10	20	30	Work exp. in a related occupation	\$27,948	\$10.40 - \$15.64
Sub-set totals (top 50)		88,300	99,520	11,220		1,170	2,450	3,620			
Overall totals		166,650	189,040	22,390		2,240	4,140	6,380			
Percent of overall		53%	53%	50%		52%	59%	57%			

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

Projections Methodology: Karin Wells, Economist

Local economist: Eric Grosso

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# Occupation Projections for Southeast Wisconsin: 2002 - 2012

## Top 50 Occupations with the Most Job Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2011	Cashiers	4,570	5,100	530	11.6%	50	220	270	Short-term on-the-job training	\$16,507	\$6.61 - \$8.69
41-2031	Retail Salespersons	5,420	6,060	640	11.8%	60	200	260	Short-term on-the-job training	\$20,194	\$6.99 - \$10.22
35-3031	Waiters/Waitresses	3,450	3,920	470	13.6%	50	180	230	Short-term on-the-job training	\$13,726	\$5.79 - \$6.75
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	3,420	4,120	700	20.5%	70	150	220	Short-term on-the-job training	\$15,714	\$6.34 - \$8.46
29-1111	Registered Nurses	2,590	3,400	810	31.3%	80	50	130	Bachelor's or Associate degree (see note 9)	\$47,347	\$19.89 - \$25.52
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	3,080	3,560	480	15.6%	50	60	110	Short-term on-the-job training	\$21,290	\$7.89 - \$12.19
51-2092	Team Assemblers	4,010	3,800	-210	-5.2%	<5	100	100	Moderate-term on-the-job training	\$27,958	\$9.97 - \$14.80
31-1012	Nursing Aides/Orderlies/Attendants	2,330	2,910	580	24.9%	60	30	90	Short-term on-the-job training	\$22,303	\$9.38 - \$11.89
43-9061	Office Clerks/General	2,610	2,860	250	9.6%	30	60	90	Short-term on-the-job training	\$22,935	\$8.81 - \$12.92
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	2,690	2,730	40	1.5%	<5	90	90	Short-term on-the-job training	\$23,417	\$8.80 - \$13.12
53-3032	Truck Drivers/Heavy/Tractor-Trailer	2,230	2,700	470	21.1%	50	40	90	Moderate-term on-the-job training	\$36,044	\$14.01 - \$20.62
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	1,950	2,290	340	17.4%	30	50	80	Moderate-term on-the-job training	\$64,442	\$17.99 - \$47.27
43-4171	Receptionists/Info Clerks	1,440	1,860	420	29.2%	40	40	80	Short-term on-the-job training	\$21,793	\$8.91 - \$11.68
37-2012	Maids/Housekpng Cleaners	1,760	2,050	290	16.5%	30	40	70	Short-term on-the-job training	\$17,971	\$7.11 - \$9.92
43-5081	Stock Clerks/Order Fillers	1,940	1,840	-100	-5.2%	<5	70	70	Short-term on-the-job training	\$19,847	\$7.18 - \$11.34
35-3011	Bartenders	1,620	1,710	90	5.6%	10	60	70	Short-term on-the-job training	\$18,240	\$7.30 - \$10.22
11-1021	General and Operations Mgrs	1,770	2,030	260	14.7%	30	30	60	Bachelor's degree or more, plus work exp.	\$89,401	\$24.58 - \$55.03
49-9042	Maint/Repair Wrkrs/General	1,750	2,010	260	14.9%	30	30	60	Long-term on-the-job training	\$32,355	\$11.98 - \$19.28
43-4051	Customer Service Reps	1,690	2,010	320	18.9%	30	30	60	Moderate-term on-the-job training	\$29,520	\$9.98 - \$17.65
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrkrs	1,680	1,890	210	12.5%	20	40	60	Work exp. in a related occupation	\$49,398	\$17.46 - \$28.03
25-2021	Elemen Schl Tchrs Ex Special Ed	1,570	1,740	170	10.8%	20	40	60	Bachelor's degree	\$37,645	-
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	1,310	1,490	180	13.7%	20	40	60	Bachelor's degree	\$43,214	-
39-9021	Personal and Home Care Aides	920	1,350	430	46.7%	40	20	60	Short-term on-the-job training	\$18,463	\$7.90 - \$9.98
35-2021	Food Prep Wrkrs	1,080	1,290	210	19.4%	20	40	60	Short-term on-the-job training	\$16,877	\$7.05 - \$8.84
43-3031	Bookkeep/Account/Auditing Clerks	2,330	2,420	90	3.9%	10	40	50	Moderate-term on-the-job training	\$27,902	\$10.52 - \$16.06
51-9111	Packagng/Fillng Machn Oprs/Tendr	1,680	1,880	200	11.9%	20	30	50	Short-term on-the-job training	\$26,620	\$10.16 - \$15.98
53-7064	Packers/Packagers/Hand	1,700	1,860	160	9.4%	20	30	50	Short-term on-the-job training	\$20,574	\$7.79 - \$11.43
51-9198	Helpers--Production Wrkrs	1,780	1,810	30	1.7%	<5	50	50	Short-term on-the-job training	\$26,448	\$12.21 - \$14.46
41-1011	F-L Sups/Mgrs of Rtl Sls Wrkrs	1,400	1,610	210	15.0%	20	30	50	Work exp. in a related occupation	\$34,307	\$11.56 - \$20.03

## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Top 50 Occupations with the Most Job Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
25-9041	Teacher Assts	1,370	1,610	240	17.5%	20	30	50	Associate degree	\$20,247	-
47-2031	Carpenters	1,310	1,600	290	22.1%	30	20	50	Long-term on-the-job training	\$37,280	\$13.70 - \$21.78
31-1011	Home Health Aides	700	1,070	370	52.9%	40	10	50	Short-term on-the-job training	\$19,776	\$8.74 - \$10.63
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	530	600	70	13.2%	10	40	50	Short-term on-the-job training	\$14,904	\$6.18 - \$8.07
43-6014	Secretaries/Ex Legal/Medical/Exec	2,310	2,170	-140	-6.1%	<5	40	40	Moderate-term on-the-job training	\$24,640	\$9.62 - \$13.93
43-6011	Executive Secretaries/Admin Assts	1,710	1,830	120	7.0%	10	30	40	Moderate-term on-the-job training	\$31,469	\$11.67 - \$18.02
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrkrs	1,410	1,490	80	5.7%	10	30	40	Work exp. in a related occupation	\$43,281	\$14.86 - \$24.78
37-3011	Landscaping/Grndskpng Wrkrs	1,080	1,310	230	21.3%	20	20	40	Short-term on-the-job training	\$22,661	\$8.42 - \$12.75
49-3023	Automotive Service Techs/Mechanics	1,070	1,200	130	12.1%	10	30	40	Postsecondary vocational training	\$31,106	\$10.71 - \$17.53
13-2011	Accountants and Auditors	970	1,170	200	20.6%	20	20	40	Bachelor's degree	\$52,353	\$18.98 - \$29.23
51-4041	Machinists	1,090	1,140	50	4.6%	10	30	40	Long-term on-the-job training	\$33,255	\$13.34 - \$18.48
35-2014	Cooks/Restaurant	940	1,060	120	12.8%	10	30	40	Long-term on-the-job training	\$19,103	\$7.19 - \$10.49
53-3022	Bus Drivers/School	830	1,060	230	27.7%	20	20	40	Short-term on-the-job training	\$24,964	\$10.23 - \$13.83
51-4121	Welders/Cutters/Solderers/Brazers	930	1,050	120	12.9%	10	30	40	Postsecondary vocational training	\$29,690	\$11.55 - \$16.76
39-5012	Hairdress/Hairstyl/Cosmetologists	850	1,050	200	23.5%	20	20	40	Postsecondary vocational training	\$20,899	\$7.11 - \$12.42
35-9021	Dishwashers	980	1,030	50	5.1%	10	30	40	Short-term on-the-job training	\$13,787	\$5.91 - \$7.37
47-2111	Electricians	740	940	200	27.0%	20	20	40	Long-term on-the-job training	\$51,910	\$22.45 - \$28.20
39-9011	Child Care Wrkrs	610	780	170	27.9%	20	20	40	Short-term on-the-job training	\$17,752	\$7.28 - \$9.10
43-3071	Tellers	670	760	90	13.4%	10	30	40	Short-term on-the-job training	\$20,368	\$8.64 - \$10.86
53-3033	Truck Drivers/Light or Delivery Svcs	1,230	1,460	230	18.7%	20	10	30	Short-term on-the-job training	\$27,222	\$9.38 - \$15.74
53-7051	Industrial Truck/Tractor Oprs	1,260	1,360	100	7.9%	10	20	30	Short-term on-the-job training	\$26,746	\$11.05 - \$14.65
Sub-set totals (top 50)		88,360	100,040	11,680		1,220	2,420	3,640			
Overall totals		166,650	189,040	22,390		2,240	4,140	6,380			
Percent of overall		53%	53%	52%		54%	58%	57%			

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

Projections Methodology: Karin Wells, Economist

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# Occupation Projections for Southeast Wisconsin: 2002 - 2012

## 40 Occupations Losing Most Jobs (there are not 50)

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
51-2092	Team Assemblers	4,010	3,800	-210	-5.2%	<5	100	100	Moderate-term on-the-job training	\$27,958	\$9.97 - \$14.80
43-6014	Secretaries/Ex Legal/Medical/Exec	2,310	2,170	-140	-6.1%	<5	40	40	Moderate-term on-the-job training	\$24,640	\$9.62 - \$13.93
43-5081	Stock Clerks/Order Fillers	1,940	1,840	-100	-5.2%	<5	70	70	Short-term on-the-job training	\$19,847	\$7.18 - \$11.34
51-2022	Electrical/Electronic Equipmnt Assemblers	650	570	-80	-12.3%	<5	20	20	Short-term on-the-job training	\$25,264	\$9.62 - \$14.63
43-9022	Word Processors/Typists	180	100	-80	-44.4%	<5	<5	<5	Moderate-term on-the-job training	\$25,307	\$9.91 - \$14.01
43-4151	Order Clerks	430	380	-50	-11.6%	<5	10	10	Short-term on-the-job training	\$23,078	\$6.72 - \$14.22
51-6031	Sewing Machine Oprs	320	290	-30	-9.4%	<5	<5	<5	Moderate-term on-the-job training	\$19,696	\$7.91 - \$11.09
43-9021	Data Entry Keyers	290	260	-30	-10.3%	<5	10	10	Moderate-term on-the-job training	\$24,313	\$9.66 - \$13.35
51-4122	Weld/Solder/Braze Mchn Set/Op/Tnd	280	250	-30	-10.7%	<5	10	10	Moderate-term on-the-job training	\$37,970	\$15.00 - \$22.43
41-9041	Telemarketers	260	230	-30	-11.5%	<5	<5	<5	Short-term on-the-job training	\$22,926	\$7.82 - \$12.74
43-5053	PS Mail Sort/Proc/Proc Machn Oprs	240	210	-30	-12.5%	<5	10	10	Short-term on-the-job training	\$36,517	\$17.45 - \$20.18
43-9011	Computer Oprs	150	120	-30	-20.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,123	\$11.39 - \$19.61
11-1031	Legislators	330	310	-20	-6.1%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$17,040	\$6.10 - \$7.09
51-9023	Mix/Blend Machn Settrs/Oprs/Tendrs	290	270	-20	-6.9%	<5	10	10	Moderate-term on-the-job training	\$29,305	\$10.71 - \$17.36
51-2021	Coil Winders/Tapers/Finishers	240	220	-20	-8.3%	<5	10	10	Short-term on-the-job training	\$26,712	\$9.67 - \$16.12
51-5022	Prepress Techs/Wrks	140	120	-20	-14.3%	<5	<5	<5	Long-term on-the-job training	\$29,289	\$10.30 - \$16.68
43-4131	Loan Interviewers/Clerks	130	110	-20	-15.4%	<5	<5	<5	Short-term on-the-job training	\$29,604	\$11.98 - \$16.05
41-3041	Travel Agents	80	60	-20	-25.0%	<5	<5	<5	Postsecondary vocational training	\$29,303	\$9.62 - \$16.77
41-2022	Parts Salespersons	290	280	-10	-3.4%	<5	10	10	Moderate-term on-the-job training	\$25,799	\$9.19 - \$15.26
43-2011	Switchboard Oprs/Incl Answrng Srvc	250	240	-10	-4.0%	<5	10	10	Short-term on-the-job training	\$19,976	\$8.05 - \$11.07
43-4071	File Clerks	240	230	-10	-4.2%	<5	10	10	Short-term on-the-job training	\$20,387	\$7.99 - \$11.30
51-2031	Engine/Other Machn Assemblers	200	190	-10	-5.0%	<5	10	10	Short-term on-the-job training	\$35,448	\$12.84 - \$20.09
51-2023	Electromechanical Equipmnt Assemblers	170	160	-10	-5.9%	<5	<5	<5	Short-term on-the-job training	\$26,609	\$10.63 - \$14.03
51-9021	Crush/Grnd/Polish Set/Op/Tndrs	150	140	-10	-6.7%	<5	<5	<5	Moderate-term on-the-job training	\$26,945	\$11.62 - \$14.06
43-9051	Mail Clerks/Mail Machn Oprs/Ex Postal Service	120	110	-10	-8.3%	<5	<5	<5	Short-term on-the-job training	\$22,756	\$9.55 - \$12.53
51-4071	Foundry Mold/Coremakers	110	100	-10	-9.1%	<5	<5	<5	Moderate-term on-the-job training	\$27,566	\$11.10 - \$14.95
51-6021	Pressers/Textile/Garment/Rel Mtrls	100	90	-10	-10.0%	<5	<5	<5	Short-term on-the-job training	\$20,244	\$7.69 - \$11.38
43-5021	Couriers/Messengers	80	70	-10	-12.5%	<5	<5	<5	Short-term on-the-job training	\$18,928	\$6.25 - \$11.18

## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### 40 Occupations Losing Most Jobs (there are not 50)

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
51-6052	Tailors/Dressmakers/Custom Sewers	60	50	-10	-16.7%	<5	<5	<5	Work exp. in a related occupation	\$18,618	\$7.90 - \$10.32
43-5041	Meter Readers/Utilities	60	50	-10	-16.7%	<5	<5	<5	Short-term on-the-job training	\$41,947	\$16.31 - \$24.40
43-9071	Office Machine Operators/Ex Computer	60	50	-10	-16.7%	<5	<5	<5	Short-term on-the-job training	\$26,722	\$9.23 - \$16.26
27-3010	Announcers	60	50	-10	-16.7%	<5	<5	<5	Long-term on-the-job training	\$26,744	\$8.71 - \$15.43

Also included in the top forty but not shown to protect the confidentiality of employers are the following occupations:

51-6063	Textile Knit/Weave Machine Set/Operator/Tenders	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-7042	Woodworker Machine Set/Operator/Tenders/Ex Saw	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
43-4061	Eligibility Interviewers/Government Programs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6062	Textile Cutting Machine Set/Operator/Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6051	Sewers/Hand	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* - *
51-6064	Textile Wind/Twist/Draw Machine Set/Operator/Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
43-2021	Telephone Operators	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* - *
17-3021	Aerospace Engineering/Operator Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	* - *

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

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# Occupation Projections for Southeast Wisconsin: 2002 - 2012

## Top 50 Occupations with Most Jobs in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2031	Retail Salespersons	5,420	6,060	640	11.8%	60	200	260	Short-term on-the-job training	\$20,194	\$6.99 - \$10.22
41-2011	Cashiers	4,570	5,100	530	11.6%	50	220	270	Short-term on-the-job training	\$16,507	\$6.61 - \$8.69
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	3,420	4,120	700	20.5%	70	150	220	Short-term on-the-job training	\$15,714	\$6.34 - \$8.46
35-3031	Waiters/Waitresses	3,450	3,920	470	13.6%	50	180	230	Short-term on-the-job training	\$13,726	\$5.79 - \$6.75
51-2092	Team Assemblers	4,010	3,800	-210	-5.2%	<5	100	100	Moderate-term on-the-job training	\$27,958	\$9.97 - \$14.80
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	3,080	3,560	480	15.6%	50	60	110	Short-term on-the-job training	\$21,290	\$7.89 - \$12.19
29-1111	Registered Nurses	2,590	3,400	810	31.3%	80	50	130	Bachelor's or Associate degree (see note 9)	\$47,347	\$19.89 - \$25.52
31-1012	Nursing Aides/Orderlies/Attendants	2,330	2,910	580	24.9%	60	30	90	Short-term on-the-job training	\$22,303	\$9.38 - \$11.89
43-9061	Office Clerks/General	2,610	2,860	250	9.6%	30	60	90	Short-term on-the-job training	\$22,935	\$8.81 - \$12.92
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	2,690	2,730	40	1.5%	<5	90	90	Short-term on-the-job training	\$23,417	\$8.80 - \$13.12
53-3032	Truck Drivers/Heavy/Tractor-Trailer	2,230	2,700	470	21.1%	50	40	90	Moderate-term on-the-job training	\$36,044	\$14.01 - \$20.62
43-3031	Bookkeep/Account/Auditing Clerks	2,330	2,420	90	3.9%	10	40	50	Moderate-term on-the-job training	\$27,902	\$10.52 - \$16.06
41-4012	Sls Reps/Whlsl/Mfg/Ex Tech/Sci Prod	1,950	2,290	340	17.4%	30	50	80	Moderate-term on-the-job training	\$64,442	\$17.99 - \$47.27
43-6014	Secretaries/Ex Legal/Medical/Exec	2,310	2,170	-140	-6.1%	<5	40	40	Moderate-term on-the-job training	\$24,640	\$9.62 - \$13.93
37-2012	Maids/Housekpng Cleaners	1,760	2,050	290	16.5%	30	40	70	Short-term on-the-job training	\$17,971	\$7.11 - \$9.92
11-1021	General and Operations Mgrs	1,770	2,030	260	14.7%	30	30	60	Bachelor's degree or more, plus work exp.	\$89,401	\$24.58 - \$55.03
49-9042	Maint/Repair Wrkrs/General	1,750	2,010	260	14.9%	30	30	60	Long-term on-the-job training	\$32,355	\$11.98 - \$19.28
43-4051	Customer Service Reps	1,690	2,010	320	18.9%	30	30	60	Moderate-term on-the-job training	\$29,520	\$9.98 - \$17.65
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrks	1,680	1,890	210	12.5%	20	40	60	Work exp. in a related occupation	\$49,398	\$17.46 - \$28.03
51-9111	Packagng/Fillng Machn Oprs/Tendr	1,680	1,880	200	11.9%	20	30	50	Short-term on-the-job training	\$26,620	\$10.16 - \$15.98
53-7064	Packers/Packagers/Hand	1,700	1,860	160	9.4%	20	30	50	Short-term on-the-job training	\$20,574	\$7.79 - \$11.43
43-4171	Receptionists/Info Clerks	1,440	1,860	420	29.2%	40	40	80	Short-term on-the-job training	\$21,793	\$8.91 - \$11.68
43-5081	Stock Clerks/Order Fillers	1,940	1,840	-100	-5.2%	<5	70	70	Short-term on-the-job training	\$19,847	\$7.18 - \$11.34
43-6011	Executive Secretaries/Admin Assts	1,710	1,830	120	7.0%	10	30	40	Moderate-term on-the-job training	\$31,469	\$11.67 - \$18.02
51-9198	Helpers--Production Wrkrs	1,780	1,810	30	1.7%	<5	50	50	Short-term on-the-job training	\$26,448	\$12.21 - \$14.46
25-2021	Elemen Schl Tchrs Ex Special Ed	1,570	1,740	170	10.8%	20	40	60	Bachelor's degree	\$37,645	-
35-3011	Bartenders	1,620	1,710	90	5.6%	10	60	70	Short-term on-the-job training	\$18,240	\$7.30 - \$10.22
41-1011	F-L Sups/Mgrs of Rtl Sls Wrkrs	1,400	1,610	210	15.0%	20	30	50	Work exp. in a related occupation	\$34,307	\$11.56 - \$20.03
25-9041	Teacher Assts	1,370	1,610	240	17.5%	20	30	50	Associate degree	\$20,247	-

## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Top 50 Occupations with Most Jobs in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
47-2031	Carpenters	1,310	1,600	290	22.1%	30	20	50	Long-term on-the-job training	\$37,280	\$13.70 - \$21.78
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrks	1,410	1,490	80	5.7%	10	30	40	Work exp. in a related occupation	\$43,281	\$14.86 - \$24.78
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	1,310	1,490	180	13.7%	20	40	60	Bachelor's degree	\$43,214	-
53-3033	Truck Drivers/Light or Delivery Srvc	1,230	1,460	230	18.7%	20	10	30	Short-term on-the-job training	\$27,222	\$9.38 - \$15.74
53-7051	Industrial Truck/Tractor Oprs	1,260	1,360	100	7.9%	10	20	30	Short-term on-the-job training	\$26,746	\$11.05 - \$14.65
39-9021	Personal and Home Care Aides	920	1,350	430	46.7%	40	20	60	Short-term on-the-job training	\$18,463	\$7.90 - \$9.98
37-3011	Landscaping/Grndskpng Wrks	1,080	1,310	230	21.3%	20	20	40	Short-term on-the-job training	\$22,661	\$8.42 - \$12.75
35-2021	Food Prep Wrks	1,080	1,290	210	19.4%	20	40	60	Short-term on-the-job training	\$16,877	\$7.05 - \$8.84
49-3023	Automotive Service Techs/Mechanics	1,070	1,200	130	12.1%	10	30	40	Postsecondary vocational training	\$31,106	\$10.71 - \$17.53
13-2011	Accountants and Auditors	970	1,170	200	20.6%	20	20	40	Bachelor's degree	\$52,353	\$18.98 - \$29.23
51-4041	Machinists	1,090	1,140	50	4.6%	10	30	40	Long-term on-the-job training	\$33,255	\$13.34 - \$18.48
35-1012	F-L Sups/Mgrs Food Prep/Srv Wrks	960	1,080	120	12.5%	10	20	30	Work exp. in a related occupation	\$27,948	\$10.40 - \$15.64
31-1011	Home Health Aides	700	1,070	370	52.9%	40	10	50	Short-term on-the-job training	\$19,776	\$8.74 - \$10.63
43-5071	Shipping/Receiving/Traffic Clerks	1,050	1,060	10	1.0%	<5	20	20	Short-term on-the-job training	\$25,448	\$9.74 - \$14.44
35-2014	Cooks/Restaurant	940	1,060	120	12.8%	10	30	40	Long-term on-the-job training	\$19,103	\$7.19 - \$10.49
53-3022	Bus Drivers/School	830	1,060	230	27.7%	20	20	40	Short-term on-the-job training	\$24,964	\$10.23 - \$13.83
51-4121	Welders/Cutters/Solderers/Brazers	930	1,050	120	12.9%	10	30	40	Postsecondary vocational training	\$29,690	\$11.55 - \$16.76
47-2061	Construction Laborers	880	1,050	170	19.3%	20	10	30	Moderate-term on-the-job training	\$34,913	\$12.53 - \$20.82
39-5012	Hairdress/Hairstyl/Cosmetologists	850	1,050	200	23.5%	20	20	40	Postsecondary vocational training	\$20,899	\$7.11 - \$12.42
35-9021	Dishwashers	980	1,030	50	5.1%	10	30	40	Short-term on-the-job training	\$13,787	\$5.91 - \$7.37
51-9061	Inspect/Test/Sort/Sample/Weighers	950	1,020	70	7.4%	10	20	30	Moderate-term on-the-job training	\$30,915	\$11.42 - \$17.24
Sub-set totals (top 50)		89,650	101,170	11,520		1,200	2,380	3,580			
Overall totals		166,650	189,040	22,390		2,240	4,140	6,380			
Percent of overall		54%	54%	51%		54%	57%	56%			

**Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004**

Projections Methodology: Karin Wells, Economist

Local economist: Eric Grosso

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### Education or training path for occupations in Southeast Wisconsin WDA

Typical education or training path	Number of Occupations included	Estimate employment		Change		Annual average		
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings
<b>All occupations</b>	730	166,670	189,050	22,380	13.4%	2,240	4,160	6,400
Associate degree	34	4,210	5,200	990	23.5%	100	80	180
Bachelor's degree	105	18,690	22,420	3,730	20.0%	370	390	760
Master's degree	36	3,040	3,630	590	19.4%	60	60	120
First professional degree	16	1,460	1,830	370	25.3%	40	30	70
Doctoral degree	40	1,190	1,540	350	29.4%	40	30	70
Long-term on-the-job training	80	13,030	14,770	1,740	13.4%	170	290	460
Moderate-term on-the-job training	162	37,350	40,480	3,130	8.4%	310	800	1,110
Short-term on-the-job training	136	65,610	73,710	8,100	12.3%	810	2,020	2,830
Bachelor's degree or more, plus work exp.	30	5,220	6,060	840	16.1%	80	100	180
Work exp. in a related occupation	42	9,710	11,070	1,360	14.0%	140	200	340
Postsecondary vocational training	49	7,160	8,340	1,180	16.5%	120	160	280

**Notes:**

- (1) **Employment** is rounded to the nearest ten. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) **Replacements** are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupation. For example, a person leaves their job as a cashier and becomes a truck driver. Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) **Total** openings are the sum of new jobs and replacements.
- (4) **Typical Education and Training Path** gives a general indication of the education or training typically needed in the occupation.

There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.

**Short-Term On-the-Job Training:** These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

**Moderate-Term On-the-Job Training:** Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

**Long-Term On-the-Job Training:** These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

**Work Experience in Related Occupation:** Occupations in this category require skills and experience gained in other jobs.

**Postsecondary Vocational Training:** These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

**Associate Degree:** This degree requires two years of full-time academic work beyond high school.

**Bachelor's Degree:** This degree requires four or five years of full-time academic work at a college or university.

**Master's Degree:** This degree requires one to two years of full-time study beyond a bachelor's degree.

**Doctoral Degree:** This degree usually requires at least three years of full-time study beyond a bachelor's degree.

**First Professional Degree:** These degrees typically require at least two years of full-time study beyond a bachelor's degree.

**Bachelor's or higher degree, plus work experience:** These occupations require a bachelor's or higher degree, in addition to work experience in a related non-managerial position.

Employment for Registered nurses is included under Bachelor's degree.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

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## Occupation Projections for Southeast Wisconsin: 2002 - 2012

### Notes:

- (1) Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) Replacements are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver. Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) Total openings are the sum of new jobs and replacements.
- (4) Typical Education and Training Path gives a general indication of the education or training typically needed in the occupation. There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.
  - Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.
  - Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.
  - Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.
  - Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.
  - Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.
  - Associate Degree: This degree requires two years of full-time academic work beyond high school.
  - Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.
  - Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.
  - Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.
  - First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.
  - Bachelor's or higher degree, plus work experience: This requires a bachelor's or higher degree, in addition to work experience in a related non-managerial position.
- (5) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.
- (6) Hourly Wage Rate - Middle Range: The middle range identifies the 25th and 75th percentiles in the hourly wage distribution for a given occupation. Fifty percent of the workers in the occupation earn wages in this range. In most cases, the entry level wage is at or below the 25th percentile.
- (7) This code is specific to the Occupational Employment Statistics (OES) Survey and is not an official SOC code.
- (8) 33-2020 includes employment for 33-2021 and 33-2022. Education/training and wages are shown individually, if available.
  - 47-5040 includes employment for 47-5041 and 47-5042. Education/training and wages are shown individually, if available.
  - 51-8010 includes employment for 51-8011, 51-8012, and 51-8013. Education/training and wages are shown individually, if available.
  - 51-9199 includes employment for 51-9141. Education/training and wages are shown individually, if available.
  - 53-6099 includes employment for 53-2022, 53-6011, and 53-6041. Education/training and wages are shown individually, if available.
- (9) Depending upon the specific position and employer either a bachelor's degree or an associate degree are most common for the occupation of registered nurse.
  - \* Data is suppressed to preserve the confidentiality of employers. Some occupations with all suppressed data deleted.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

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